

ABSTRACT

A catalyst element for a stacked reactor for generating hydrogen from hydrocarbons includes a catalyst disc of porous material and a solid connection element. The catalyst-side end of the connection element is at least partially enclosed by the catalyst disc and is connected to this disc. The catalyst-side end of the connection element may have a mediator layer that is joined to the connection element over the entire area by sintering, soldering, or adhesive bonding. The mediator layer is joined to the catalyst disc over the entire area by sintering. Attachment means are provided at the exposed end, which is remote from the catalyst, of the connection element.